

CITY OF O'FALLON
GENERAL NOTES

CORONATION HEIGHTS

INDEX

PLAINTIFF'S EXHIBIT
5
2/27/89 TLP

AS-BUILTS

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals.
2. Underground utilities have been plotted from available information and therefore their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to grading or construction of improvements.
3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR35.
4. Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14.
5. Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class II.
6. All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class II) unless noted otherwise on the plans.
7. Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M36, A.A.S.H.O. See plans for gauge.
8. All filled places under buildings, under proposed storm and sanitary sewer lines; and trench backfills under paved areas shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (A.S.T.M. D-1557) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
9. All filled places in paved State, County or City roads (Highways) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (A.S.T.M. D-698) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
10. All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas.
11. Easements shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
12. No area shall be cleared without permission of the developer.
13. All grade shall be within 0.2 feet more or less of those shown on the grading plan.
14. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
15. Hazard markers will consist of three (3) standard specification "Manual on Uniform Traffic Control Devices," end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
16. All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
17. All standard street curb inlets to have front of inlet 2 feet behind curb.
18. The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one half feet (2-1/2').
19. Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
20. All cast iron pipe for water mains shall conform to AWWA specification C-106 and/or C-108. The cast iron fittings shall conform to AWWA specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to AWWA specification C-111.
21. All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
22. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
23. All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
24. All PVC sanitary sewer pipe to be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to twelve (12) inches above the top of the pipe.
25. All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way Markers shall be reset at the completion of grading.
26. All streets must meet the specifications and installation requirements of the City of O'Fallon.
27. All sanitary manhole tops shall be set 0.2' higher than the proposed ground except in pavement areas.
28. All sanitary manholes shall have a 31 mil. thick coat of coal tar pitch waterproofing.
29. All sanitary service lines shall be 6" for Multi-family and 4" for Single family developments.
30. Manhole frame and cover shall be Clay and Bailey No. 2008 or Neenah R 1736 or Deeter 1315 or approved equal.
31. A drop of 0.2 feet is required through each sanitary manhole.
32. The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
33. Brick shall not be used on manholes.

SHEET	DESCRIPTION
1.	Cover Sheet
2.	Flat Plan
3.	Grading Plan
4.	Street Profiles (Sanitary Sewer Profiles)
5.	Sanitary Sewer Profiles
6.	Storm Sewer Profiles
7.	Drainage Area Map
8-12.	Details



LOCATION MAP

PROJECT BENCHMARK

Top Northeast Corner of Headwall on the North Side of Civic Park Drive, U.S.G.S. Elevation 501.91

LEGEND

- C.I. Curb Inlet
- D.C.I. Double Curb Inlet
- A.I. Area Inlet
- G.I. Grate Inlet
- M.H. Manhole
- FE. Flared end section
- E.P. End pipe
- C.P. Concrete pipe
- R.C.P. Reinforced concrete pipe
- C.M.P. Corrugated metal pipe
- C.I.P. Cast iron pipe
- P.V.C. Polyvinyl chloride pipe
- V.C.P. Vitrified clay pipe
- CO. Clean out
- V.T. Vent trap
- Storm sewer (proposed)
- Sanitary sewer (proposed)
- Existing contour
- Proposed contour
- Street sign
- End of lateral
- Lateral
- Lot or building number
- Test Hole
- Existing fence line
- Existing tree line
- Storm sewer (existing)
- Sanitary sewer (existing)
- Water line
- Tee and valve
- Cap
- Hydrant
- Thrust block

Jan. 15, 1989 AS-BUILTS MC
Mar. 11, 1989 AS-BUILTS (SAA/SDR) JB
Dec. 1986 Per City Comments, Added San. Sewer Profiles

PROPERTY OF
CITY OF O'FALLON
BUILDING DEPARTMENT

	CIVIL ENGINEER AND SURVEYOR RAY RICKETT, PE, E. 14395 332 W.D. RIVERS DRIVE 278-1211 ST. PETERS, MO 63376 441-1211	TWIN OAK ESTATES 707 Emge Road O'Fallon, MO 63366 Phone: 272-8959	DRAWN BY: MC CHECKED BY: _____ DATE: Aug. 1986	25-131
	CITY OF O'FALLON			

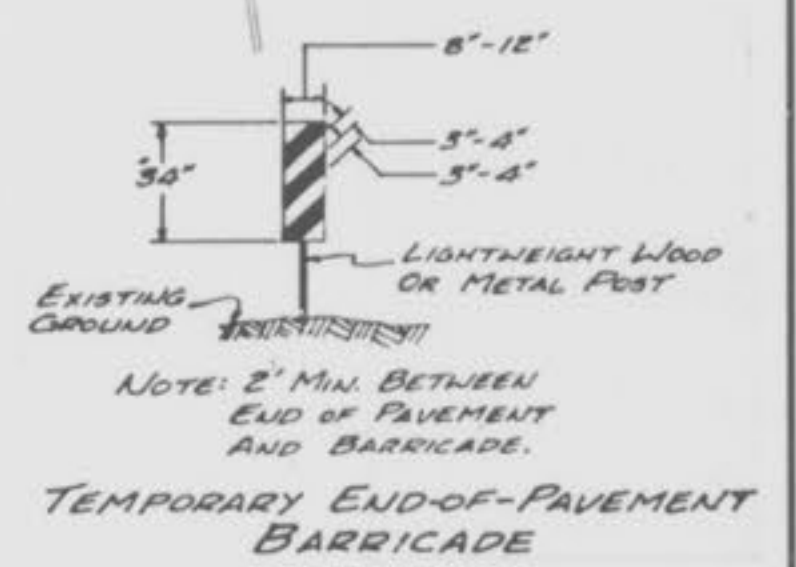
PLAINTIFF'S
EXHIBIT
5A
2/22/89 TLP



STREET CENTER LINE DATA

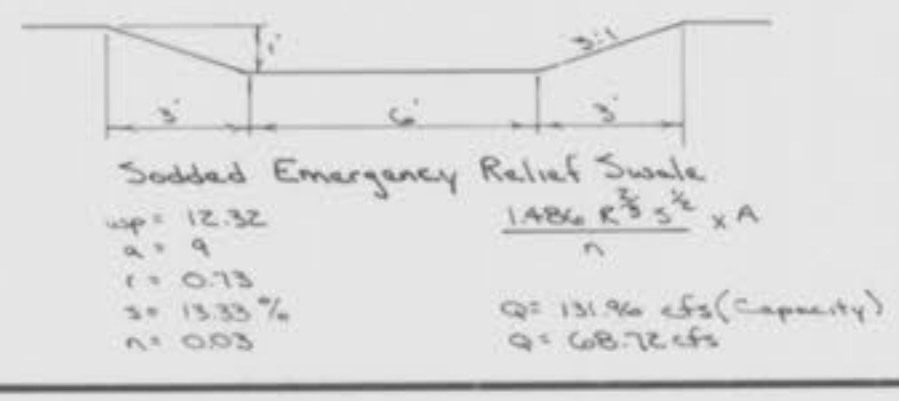
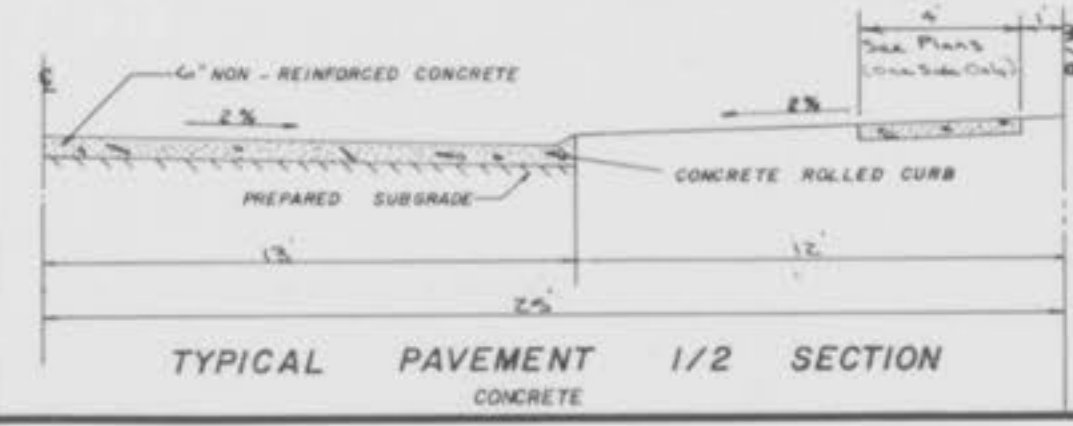
Queens Drive
1. N. 89°58'42" E. L = 384.00'

Coronation Drive
1. S 89°58'42" W. L = 85.00'
2. R = 175.00' Δ = 21°00'00" L = 64.14'
3. S 68°58'42" W. L = 60.00'
4. R = 175.00' Δ = 13°30'00" L = 41.23'
5. S 82°28'42" W. L = 27.58'
6. R = 100.00' Δ = 97°30'00" L = 170.17'
7. N. 00°01'18" W. L = 455.71'
8. N. 00°01'18" W. L = 150.00'



-  Denotes As-Built Sanitary Sewer
-  Denotes As-Built Storm Sewer

AS-BUILTS
11-17-86



NOTE:
Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

PROPERTY OF
CITY OF FALLON
BUILDING DEPARTMENT

Note:
Civic Park Drive & Imperial Drive
To Remain Open To Traffic At All Times.

82
3
12

Scale
Vert. 1"=10'
Horr. 1"=50'

FINAL SURVEY
DATE: _____ BY: _____
PLANNED: _____
NOTE BOOK: _____
AREAS CHECKED: _____

ORIGINAL SURVEY
DATE: _____ BY: _____
PLANNED: _____
NOTE BOOK: _____
AREAS CHECKED: _____

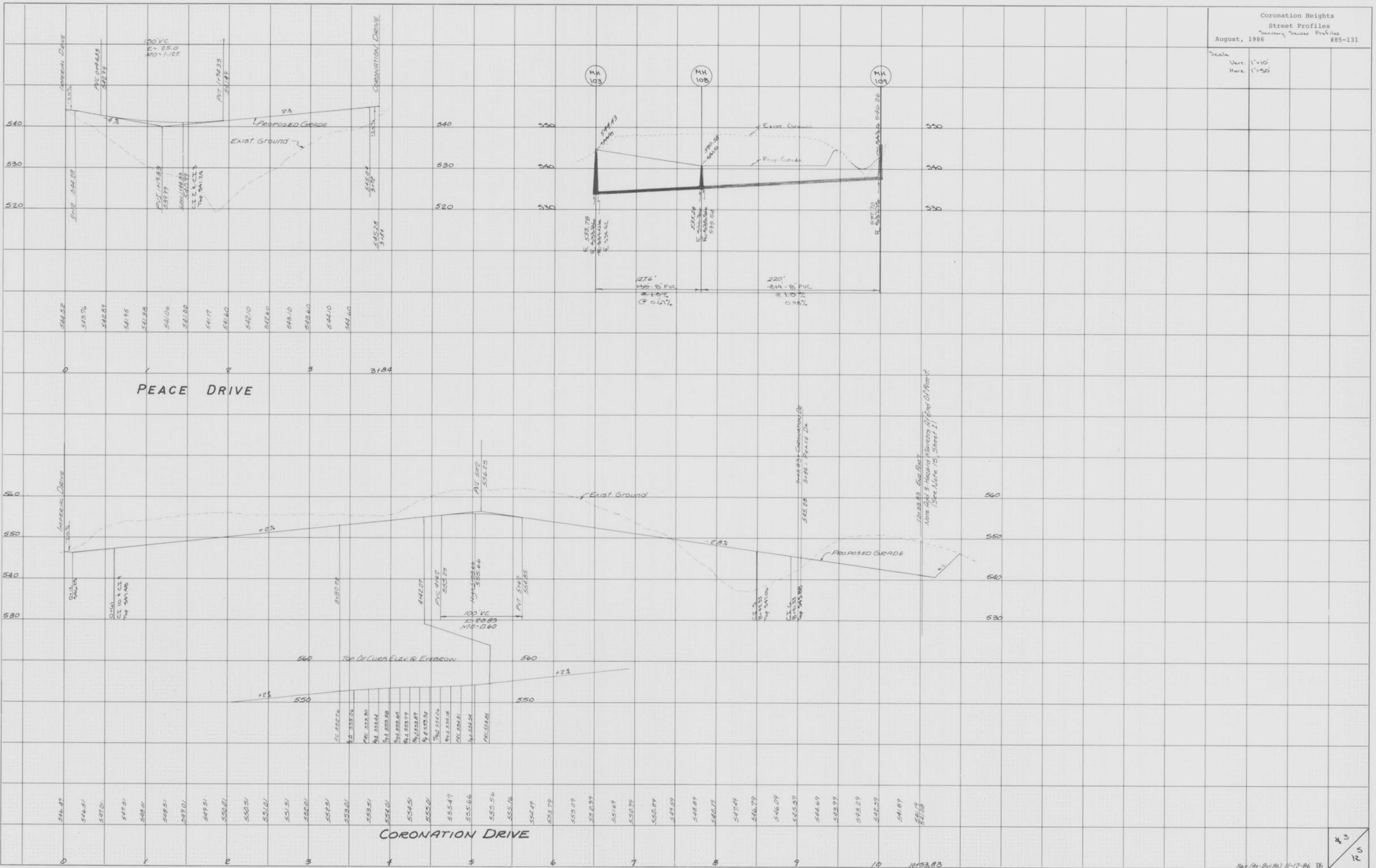


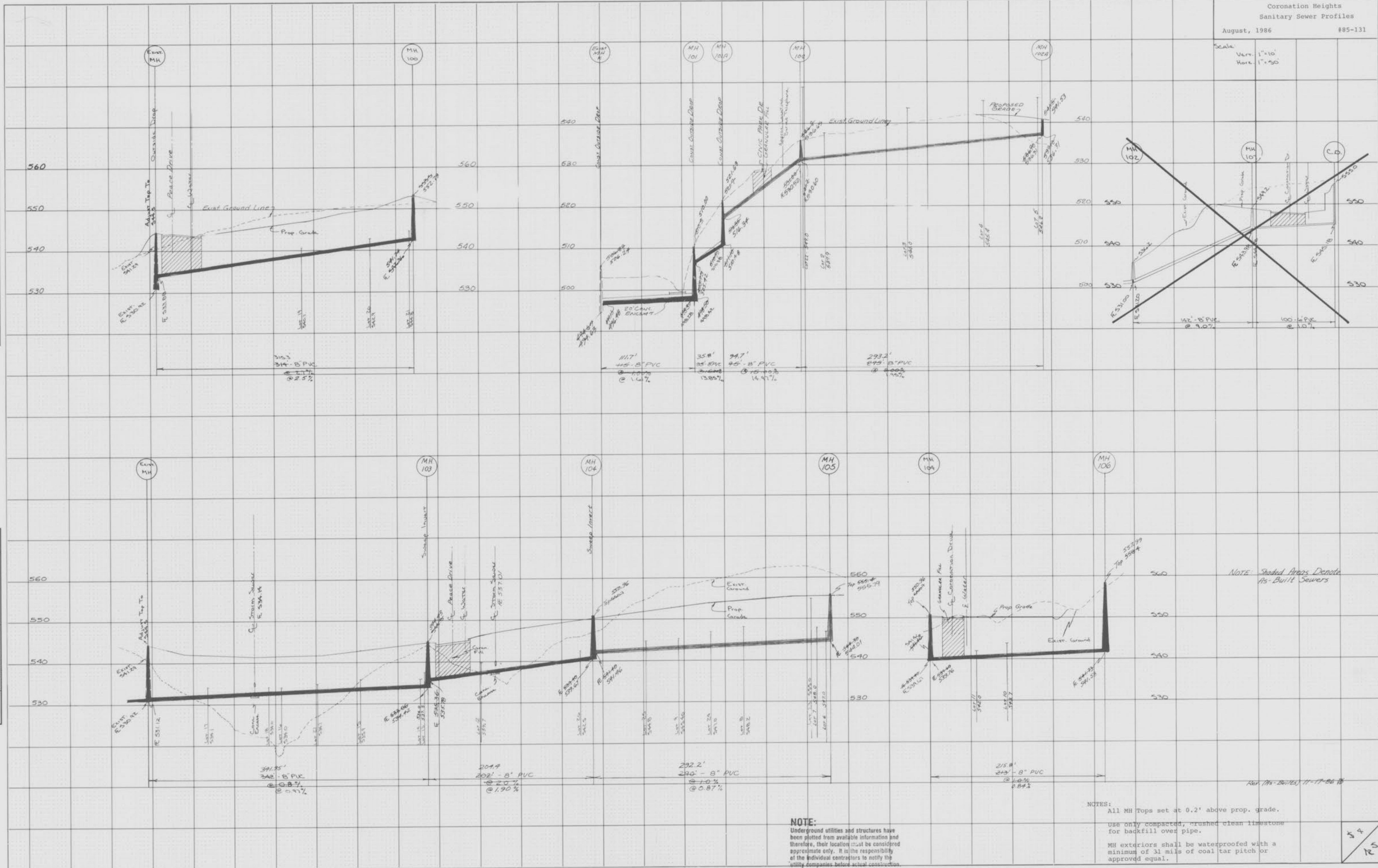
PLATE 3-FULL CROSS SECTION LINE & DOT
PRINTED IN U.S.A.

AS-BUILTS

Scale
Vert. 1" = 10'
Hori. 1" = 50'

FINAL SURVEY
DATE: _____ BY: _____
NO. _____
PLOTTED: _____
NOTE BOOK: _____
AREAS CHECKED: _____

ORIGINAL SURVEY
DATE: _____ BY: _____
NO. _____
PLOTTED: _____
NOTE BOOK: _____
AREAS CHECKED: _____



NOTE: Stippled Areas Denote As-Built Sewers

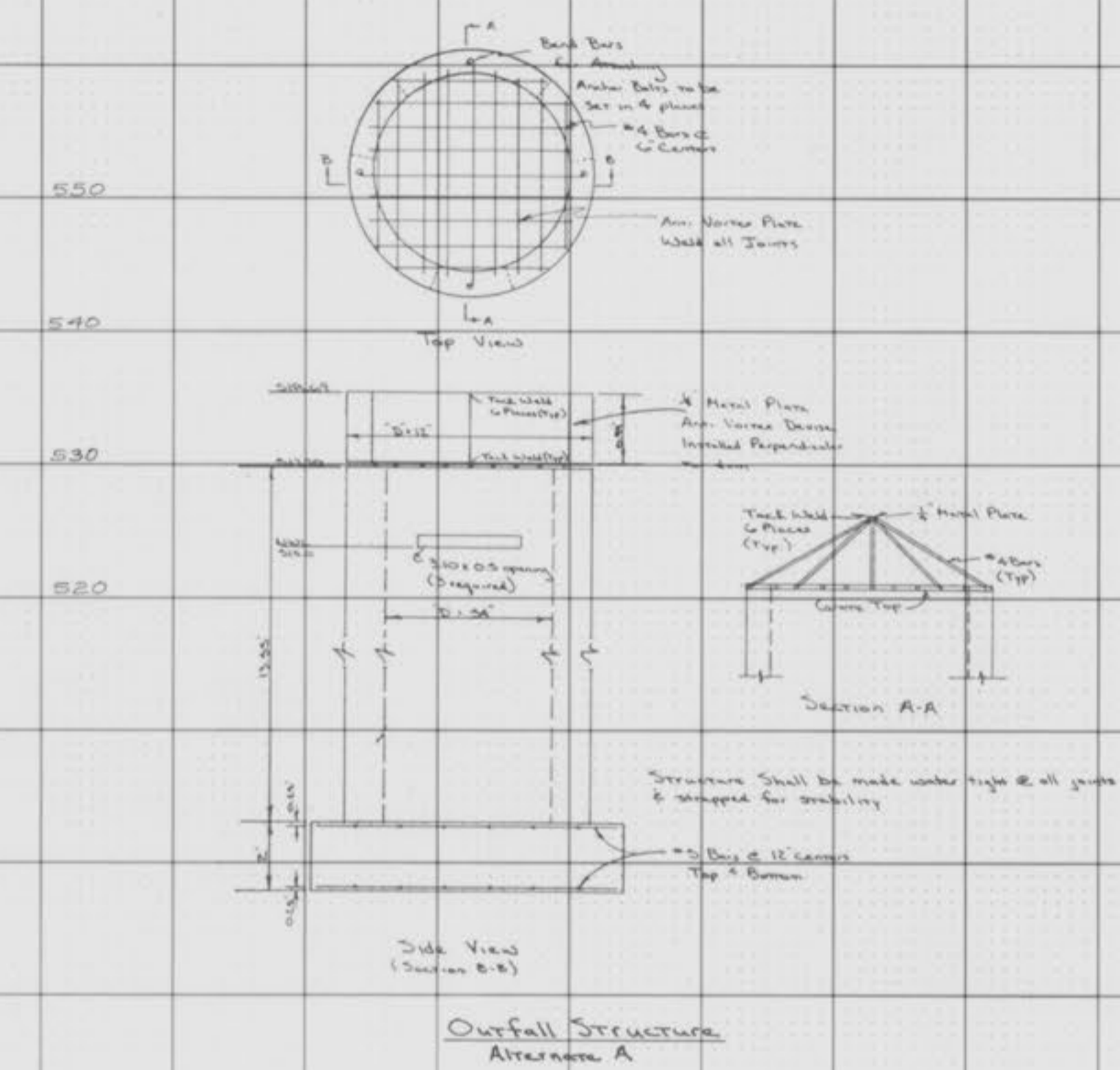
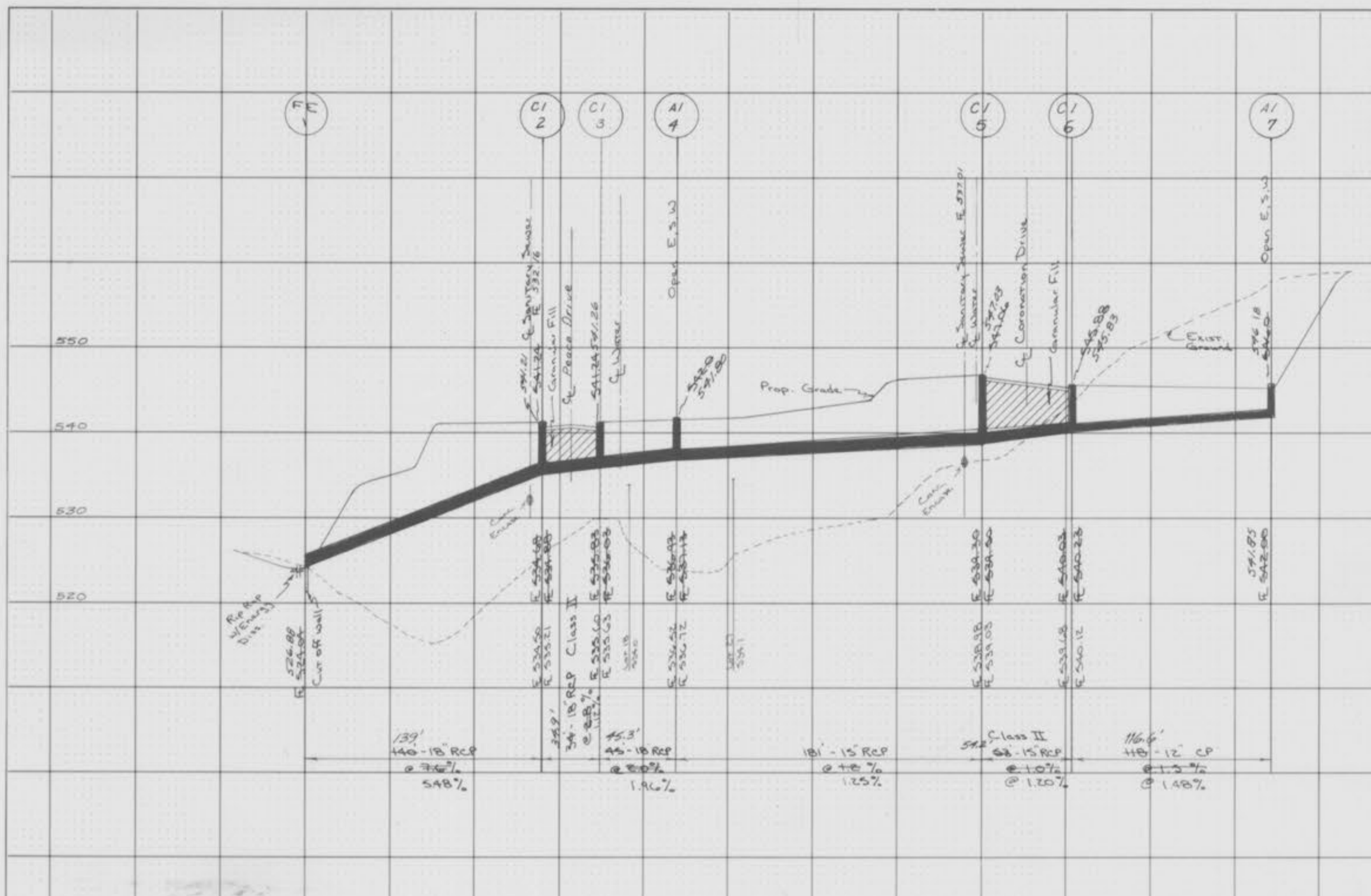
NOTE:
Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

NOTES:
All MH Tops set at 0.2' above prop. grade.
Use only compacted, crushed clean limestone for backfill over pipe.
MH exteriors shall be waterproofed with a minimum of 31 mils of coal tar pitch or approved equal.

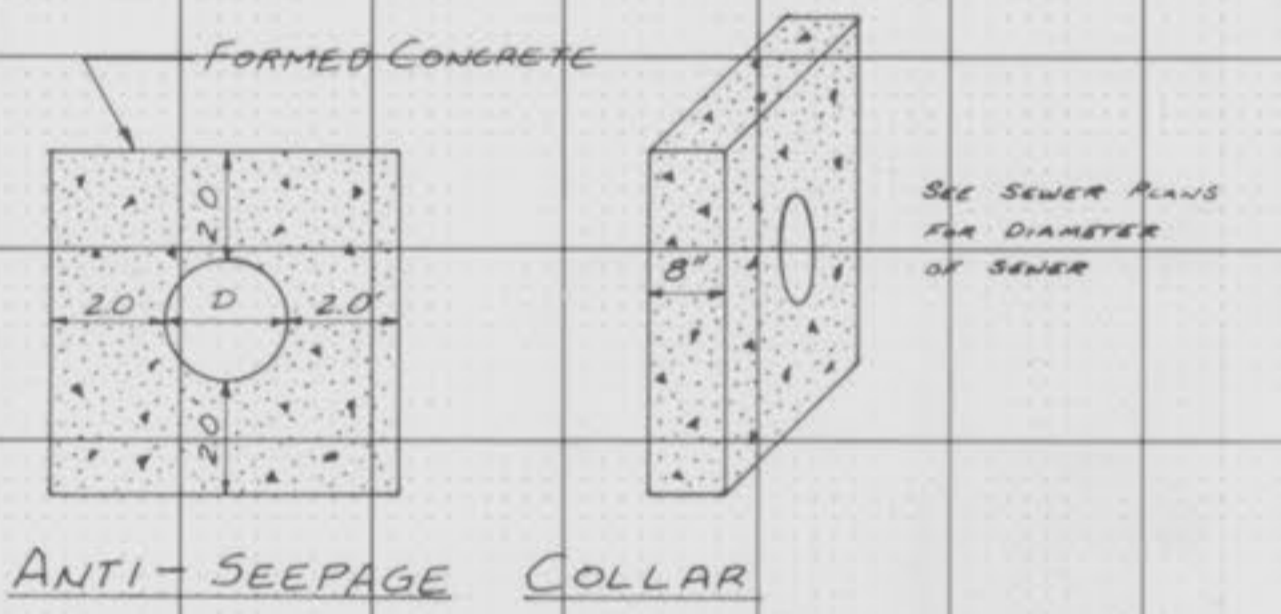
54
25

Scale
Vert. 1" = 10'
Hori. 1" = 50'

FINAL SURVEY BY DATE
SURVEYED BY DATE
PLOTTER DATE
NOTE BOOK NO.
AREA CHECKED



- GENERAL NOTES: (For Dam Construction)
1. Dam area and abutments to be stripped of all vegetation and topsoil.
 2. Dam core trench width and depth to be determined by the Soils Engineer.
 3. Acceptable core trench backfill and embankment fill to be clayey soils with 4-F.E.-of-at-least-20, and must be approved by the Soils Engineer.
 4. Subgrade of dam to be proffered prior to filling.
 5. All fill to be compacted to a minimum dry density of 85 percent of the maximum dry density as determined by the modified Proctor compaction test, ASTM D1557.
 6. Backfill around outlet structure and pipes to be hand compacted to 85 percent of maximum dry density.
 7. A qualified Soils Engineer shall be retained to verify compliance with the plans and specifications.



ORIGINAL SURVEY BY DATE
SURVEYED BY DATE
PLOTTER DATE
NOTE BOOK NO.
AREA CHECKED

